

Bovine Papular Stomatitis

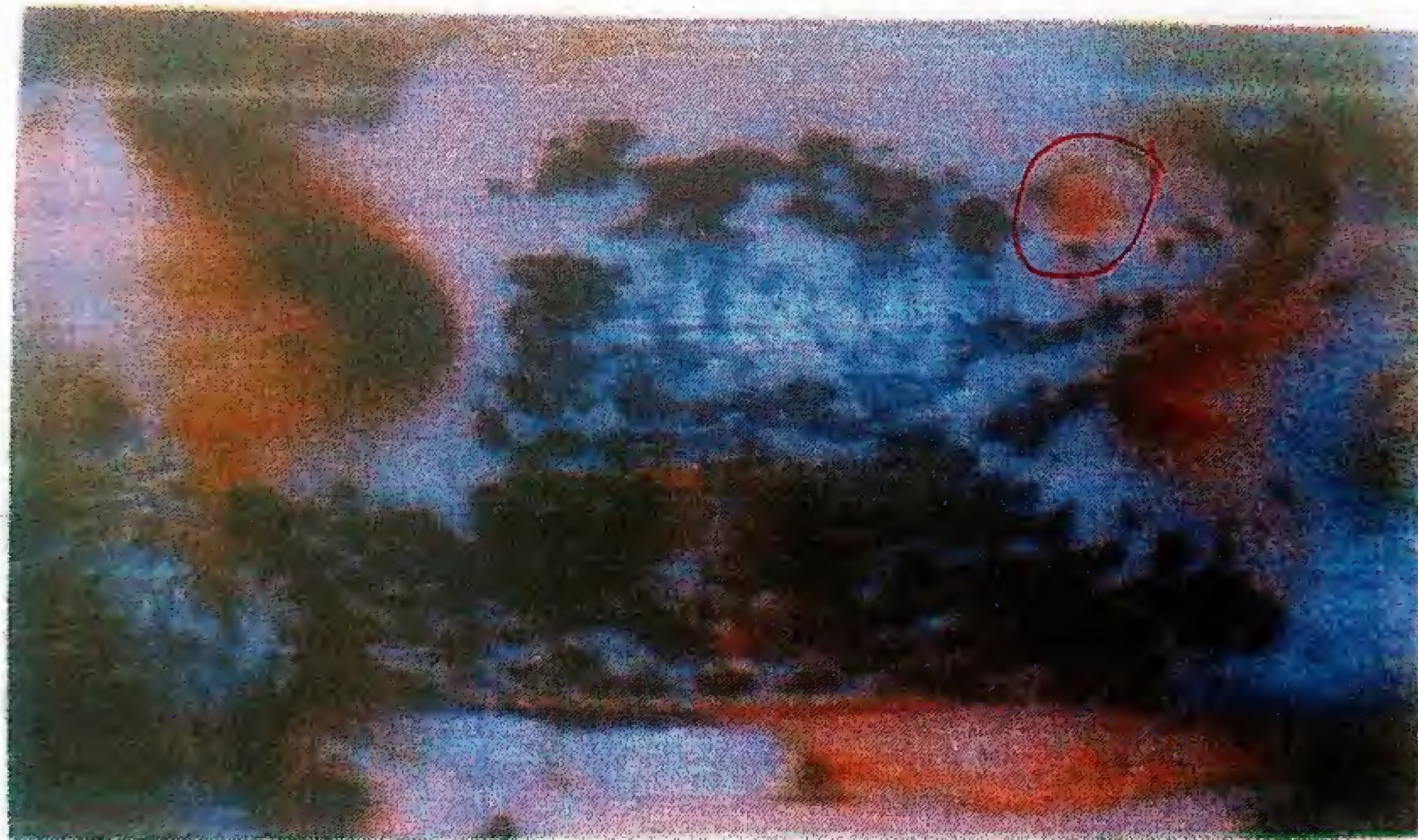
Muzzle **redness**

Lips, mouth **stomatitis (vesicles, erosions)**

Oesophagus **vesicles, erosions**

Forestomach **vesicles, erosions**

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Bovine papular stomatitis
lesion on the muzzle



**Bovine papular stomatitis
lesion on the gums**



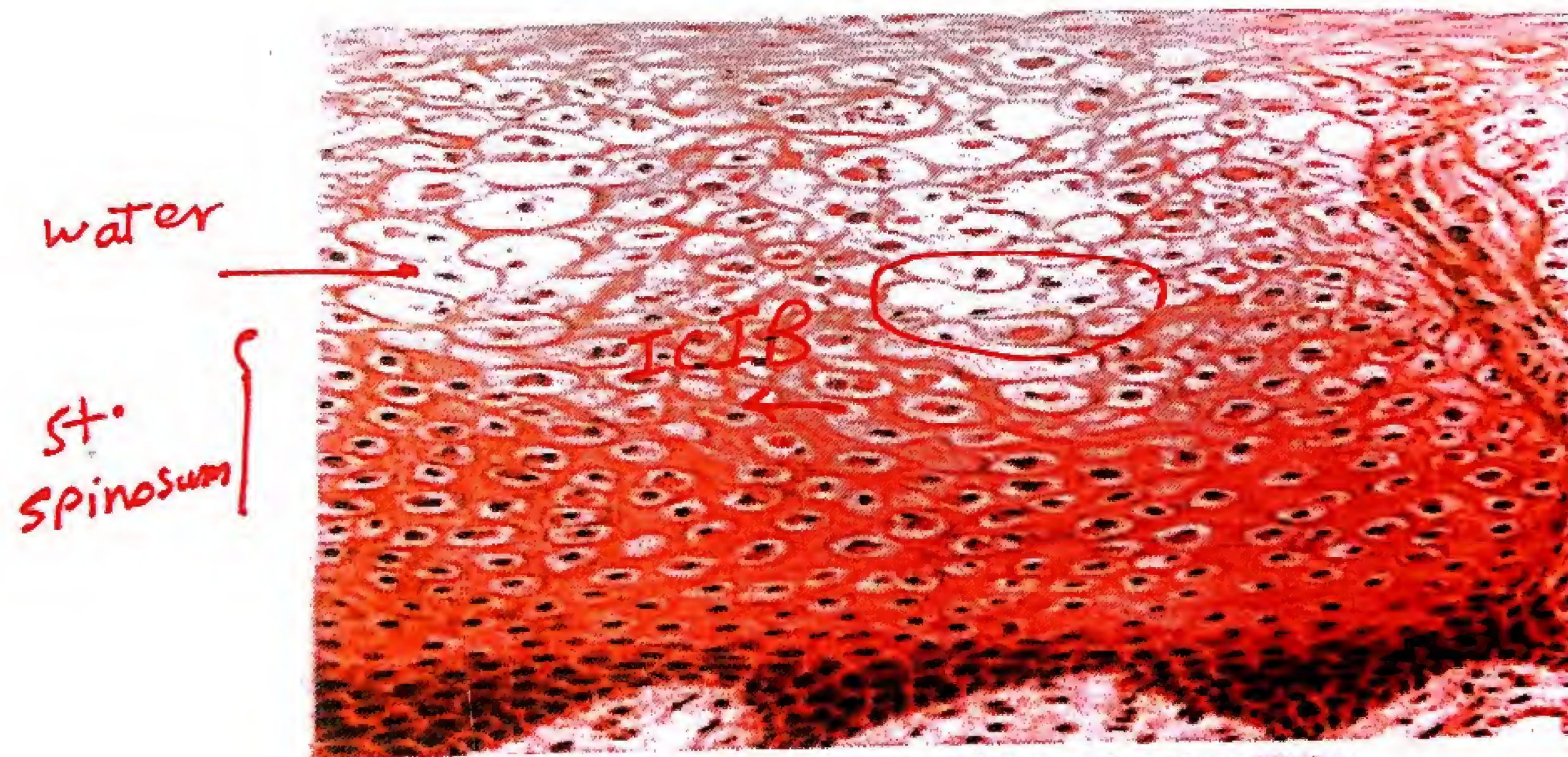
Bovine papular stomatitis
lesions on the dental pad and hard palate



water

st.
spinosum

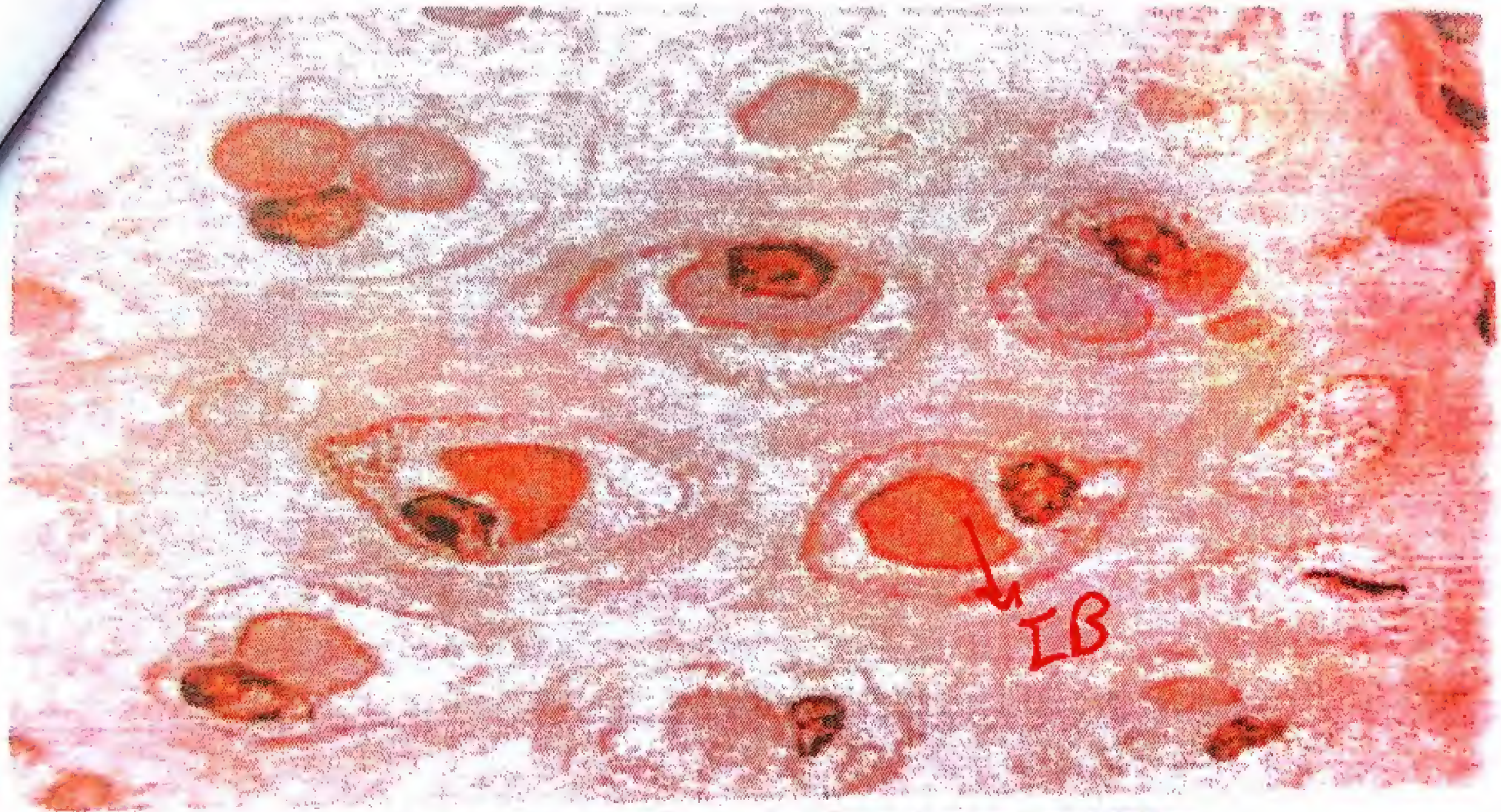
Bovine papular stomatitis
lesions on the dental pad



Bovine papular stomatitis

Lip : hydropic degeneration and swelling of cells in str. spinosum at the beginning of vesicle formation

Inclusion bodies are seen intracytoplasmic



Bovine papular stomatitis
Intracytoplasmic inclusion bodies
in cells of str.spinosum of stratified
squamous epithelium of the lip

الطاعون البشري

Cattle plague Rinderpest

Tongue: erosions/ulcers

Mouth: necrotic stomatitis (ulcers)

Oesophagus: ulcers

Forestomach: ulcers

Abomasum: ulcers

Small intestine: ulcers, haemorrhagic enteritis

Large intestine: congestion / zebra stripings

Urinary bladder: ulcers

Kidney: congestion

Eye: conjunctivitis / corneal opacity

Spleen: petechial haemorrhages subcapsular

Lymph nodes: shrinkage / necrotic changes



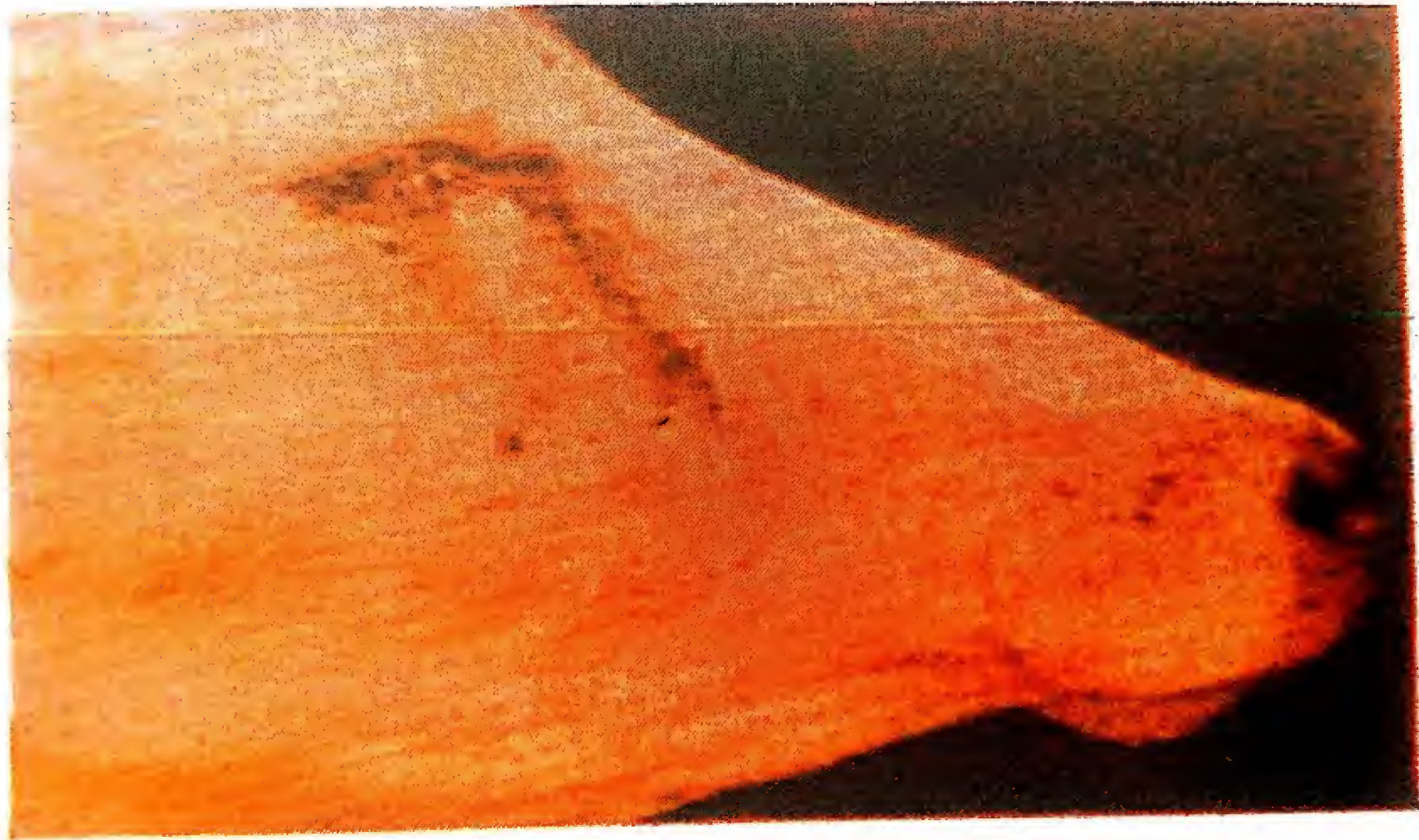
Cattle plague (Rinderpest)

**It is a severe contagious disease in which mortality
may reach 100 %**



Cattle plague

mortality may reach 100 %

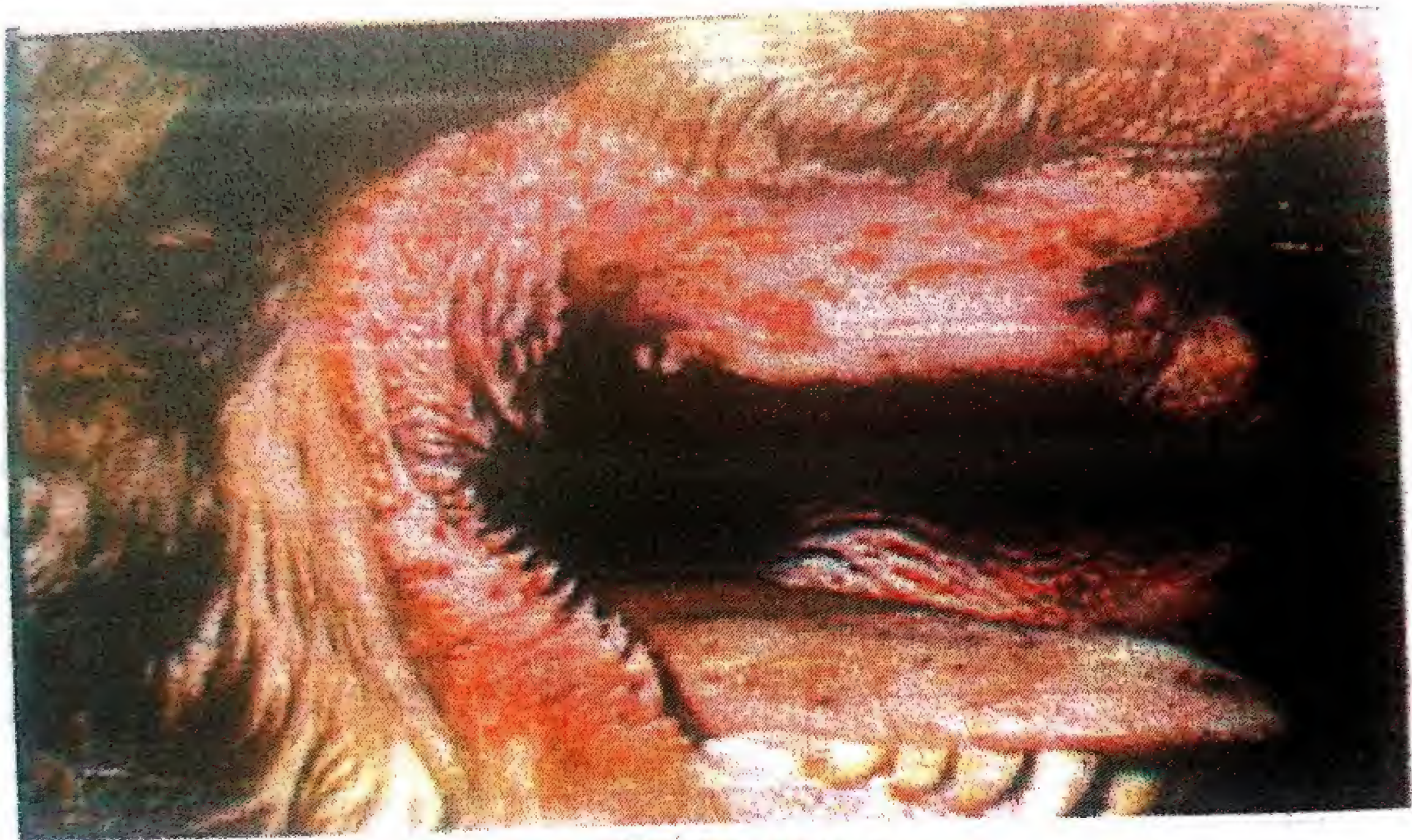


Cattle plague
increased lacrimation in an affected cow



Cattle plague
erosions on the dental pad and hard palate





Cattle plague

erosions on the gums of an affected cow

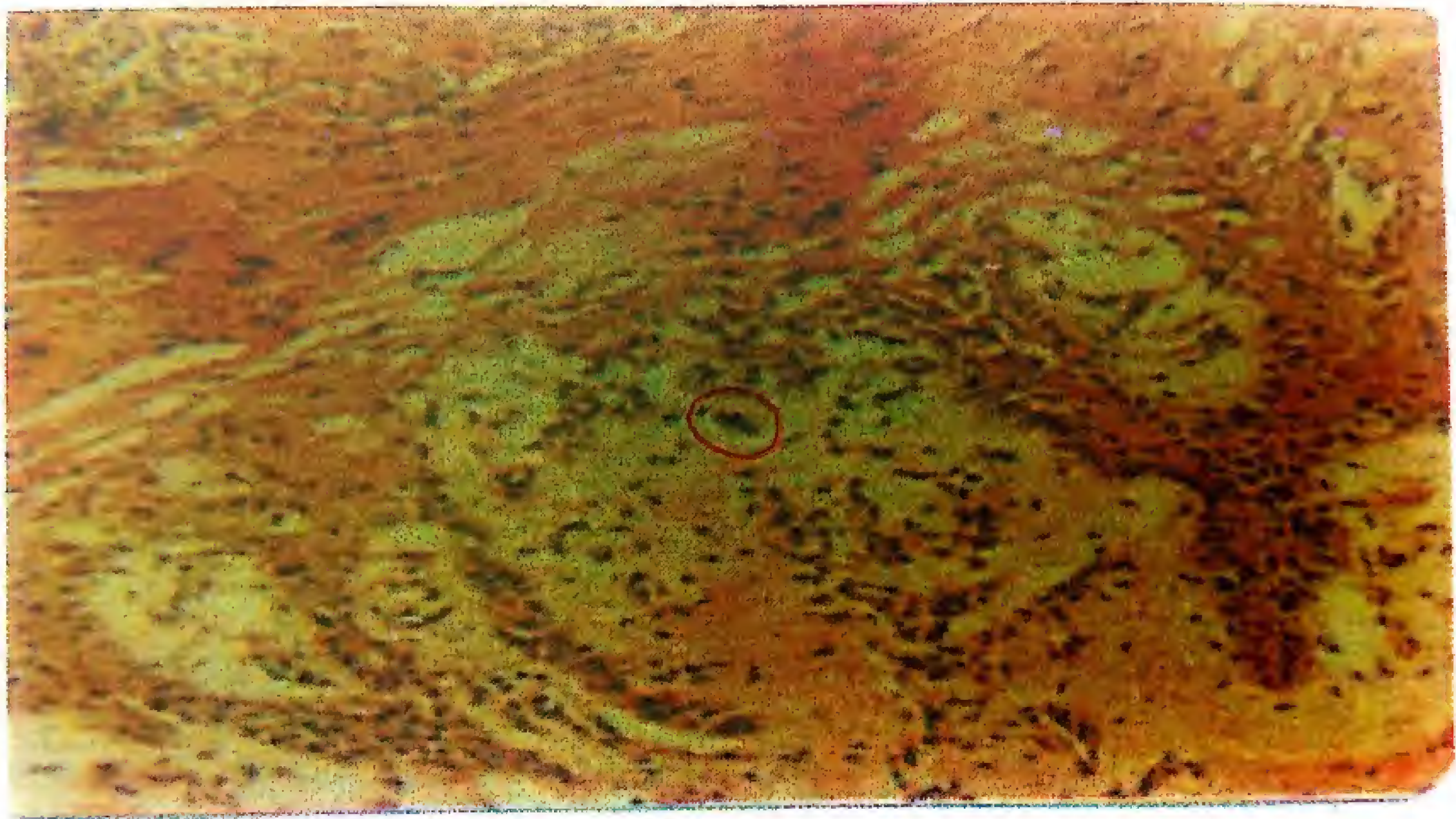




Cattle plague

congestion and reddening of the root of the teeth
and erosions of the lower gum





Cattle plague

Cheek : cells of stratum spinosum undergo coagulative necrosis
neutrophils infiltrate the mucosa
(giant cells and intracytoplasmic inclusions may be present)

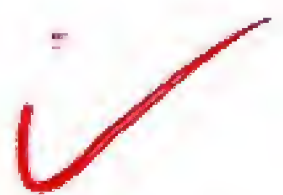




Cattle plague

Tongue : necrotic stomatitis

regenerating granulation tissue in the mucous membrane - damage of the cells of stratum germinativum - chronic inflammation of the submucosa



Coagulative necrosis



Cattle plague

Lymph node: enlargement and edema





Cattle plague

Abomasum (fundic portion) : congestion and
haemorrhage

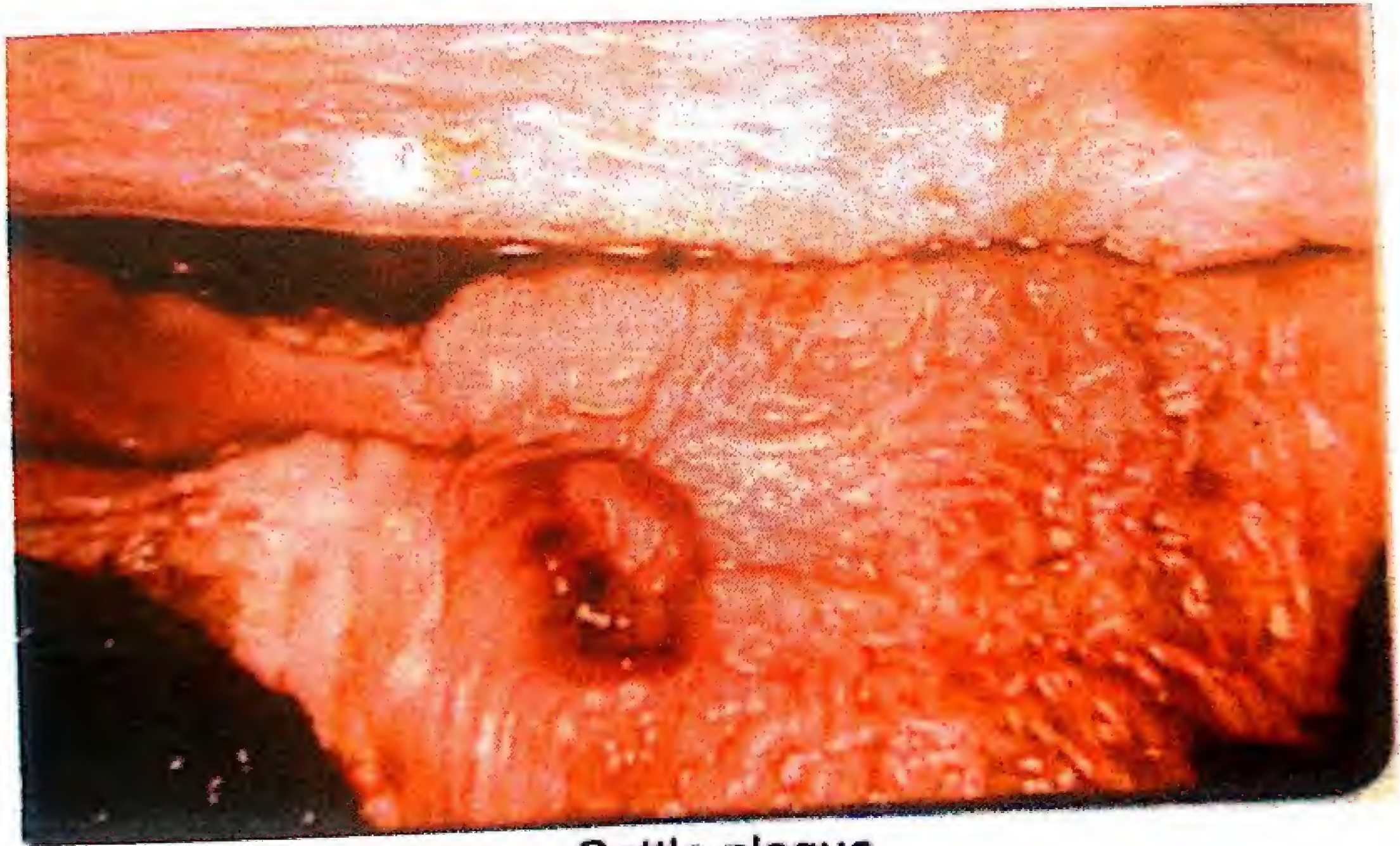




Cattle plague

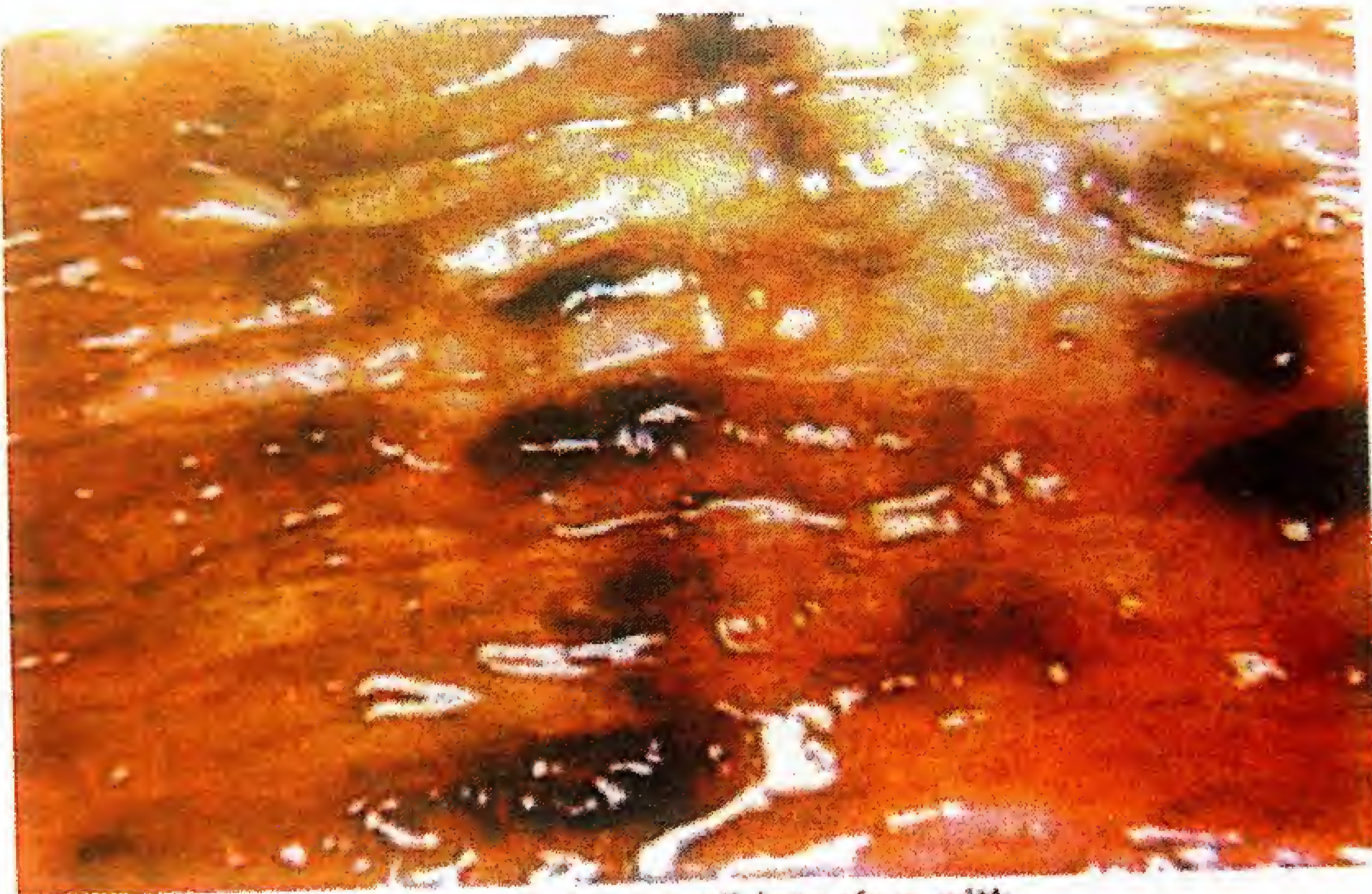
Lung: severe congestion of the anterior lobes





Cattle plague
congestion of the ileocecal valve





13 Close-up of an area of the small intestine with hemorrhage and erosions (RP).





Cattle plague
"Zebra-stripping " in the distal colon and rectum





Cattle plague

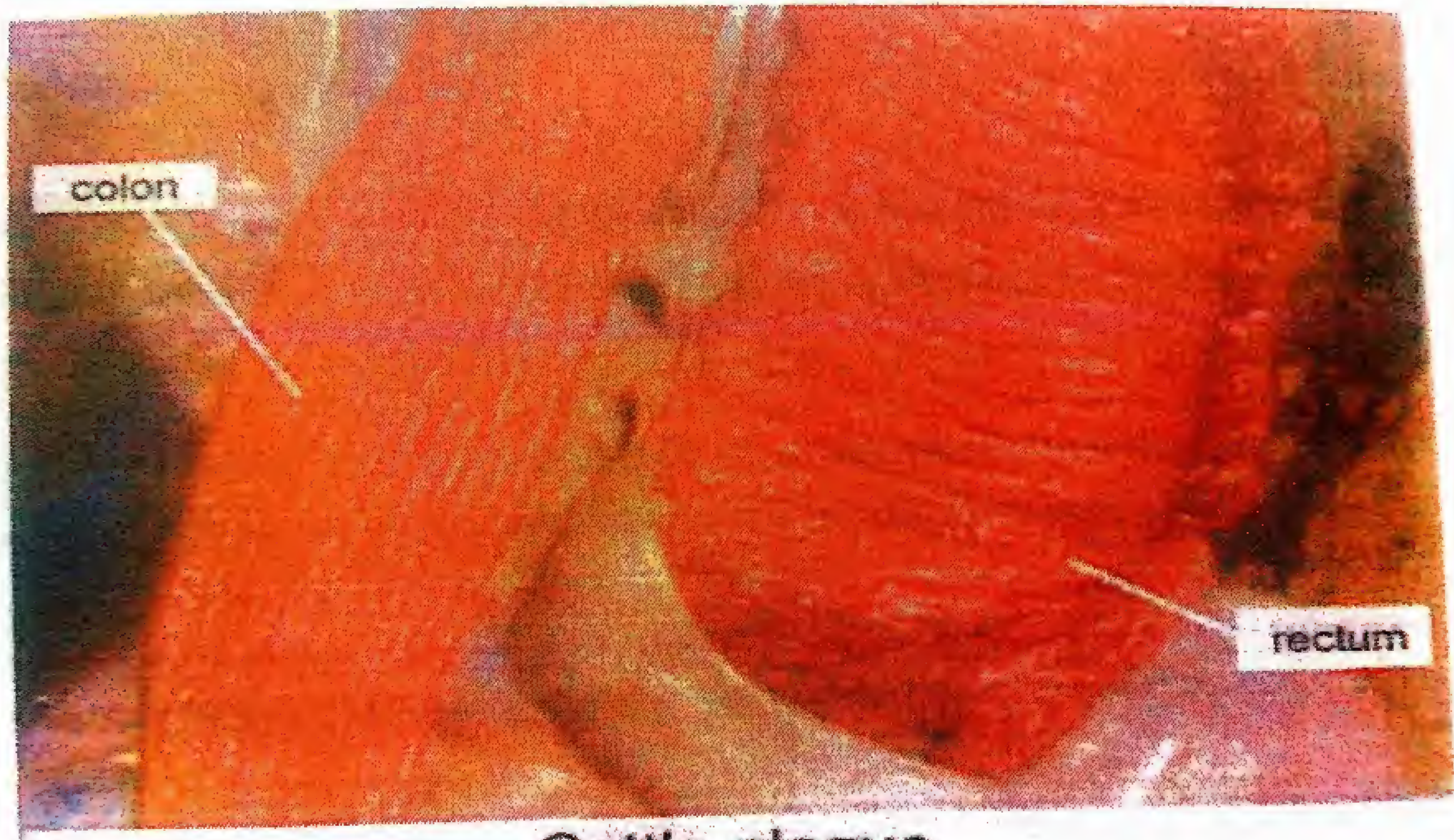
Intestine: severe congestion and haemorrhage

✓



Cattle plague

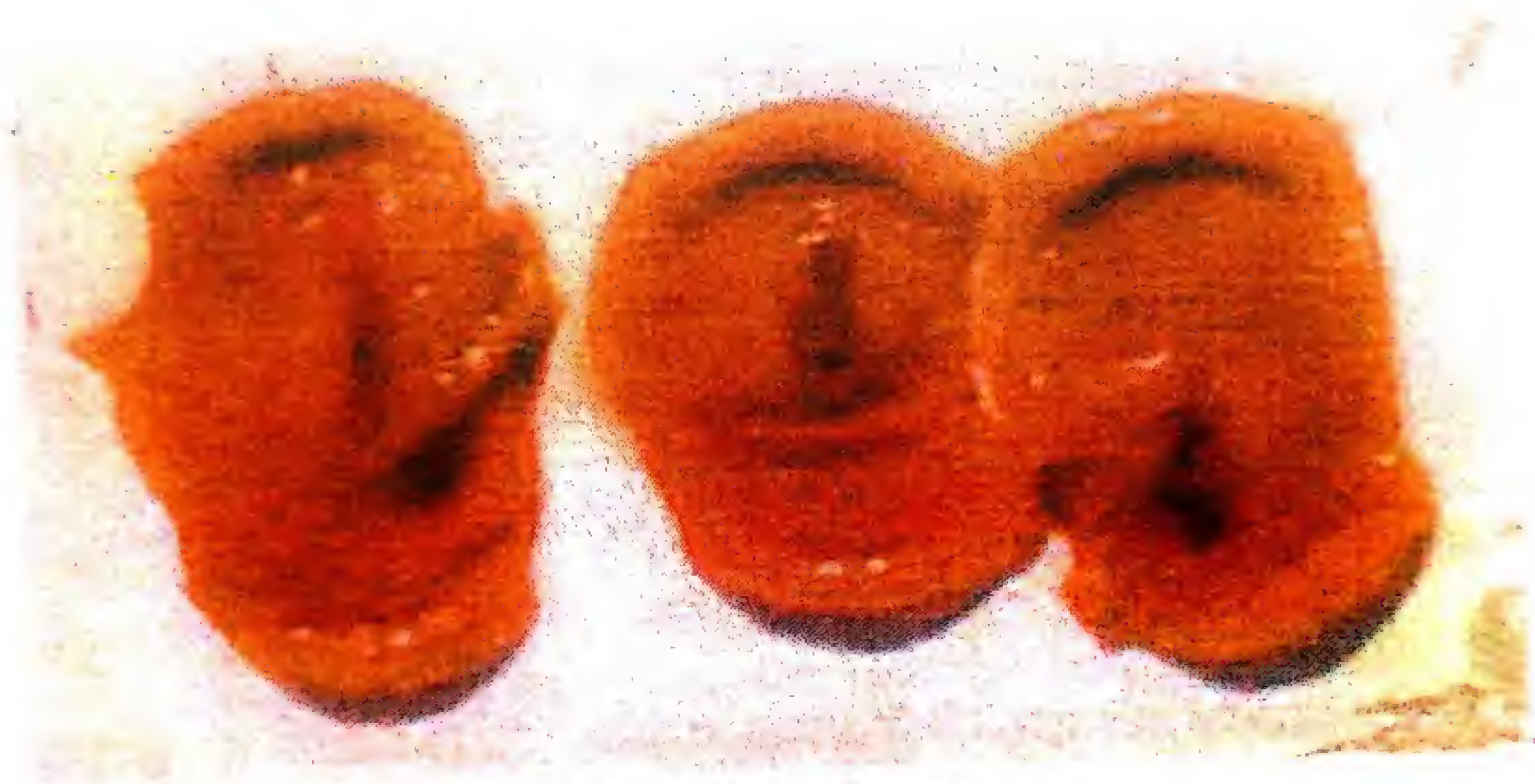
Intestine (ileocecal valve) : severe haemorrhagic inflammation and thickening of the mucosa



Cattle plague

Haemorrhagic enteritis: the crests of longitudinal folds of the colon and transverse folds of the rectum show bright red haemorrhagic strippings (zebra markings)





Cattle plague

Small intestine: the mucosa above the area of Peyer's patches is necrotic and the epithelium undergo sloughing leading to the formation of ulcers





Cattle plague

Small intestine: haemorrhagic enteritis (the intestinal wall is thickened and intensively reddened or tinged with blood)

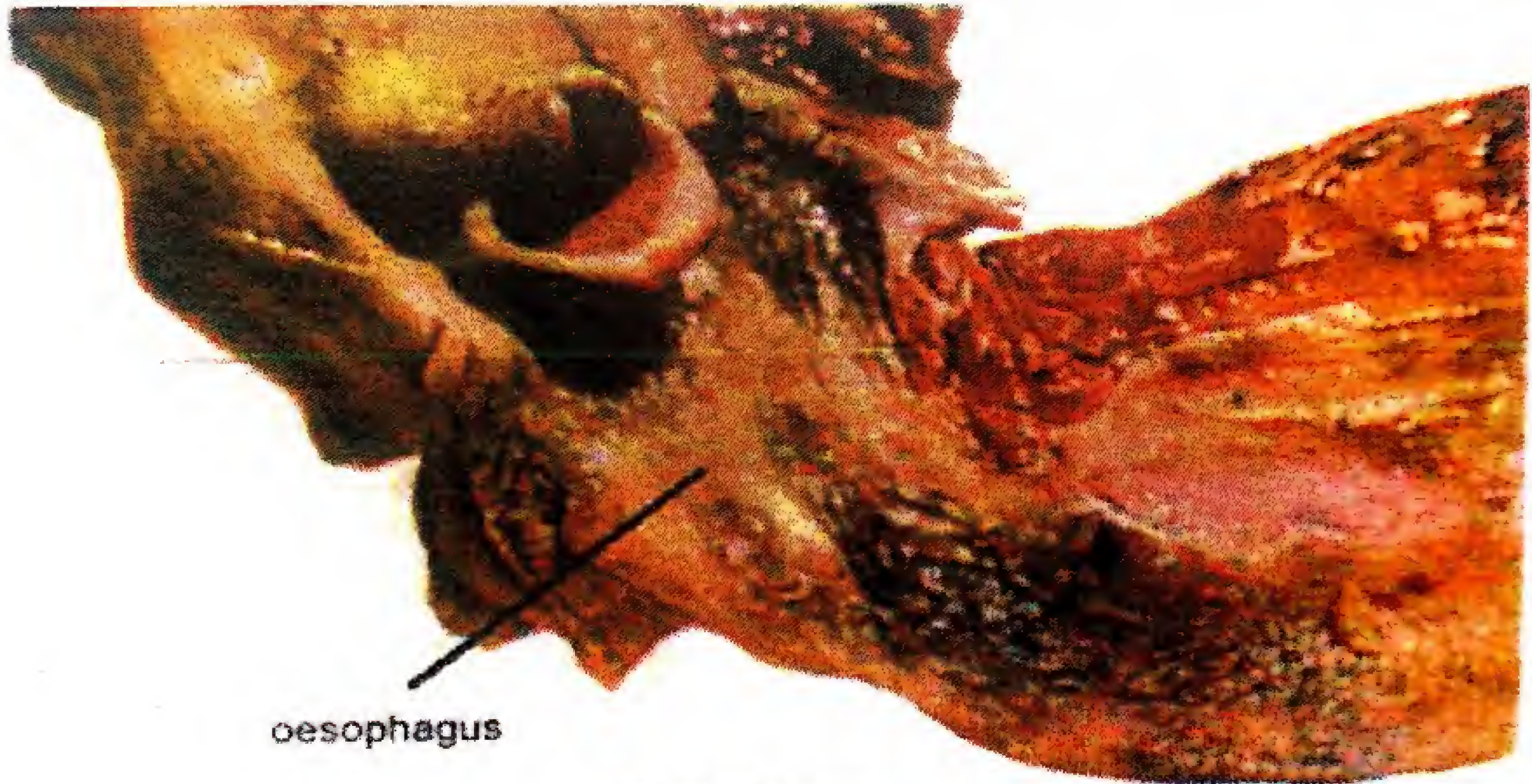




Cattle plague

severe congestion of the small intestine and
ileocecal valve





oesophagus

Cattle plague

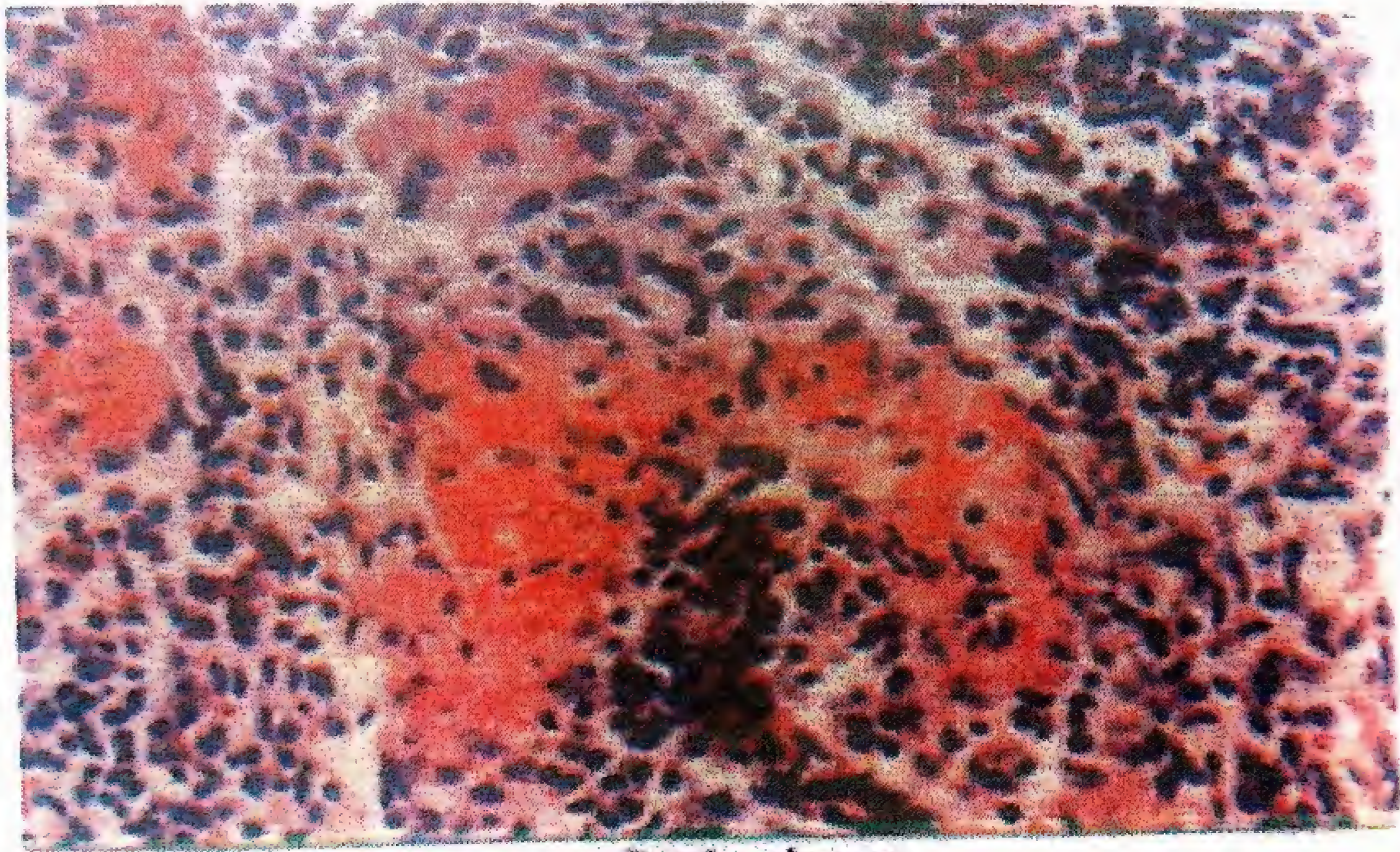
✓ Oesophagus : severe infection with focal yellowish-white necrotic areas on the mucosa



Cattle plague

Necrotic glossitis in the tongue
pin-headed foci on the dorsum of the tongue giving
the appearance as if the organ being sprinkled with bran-mash

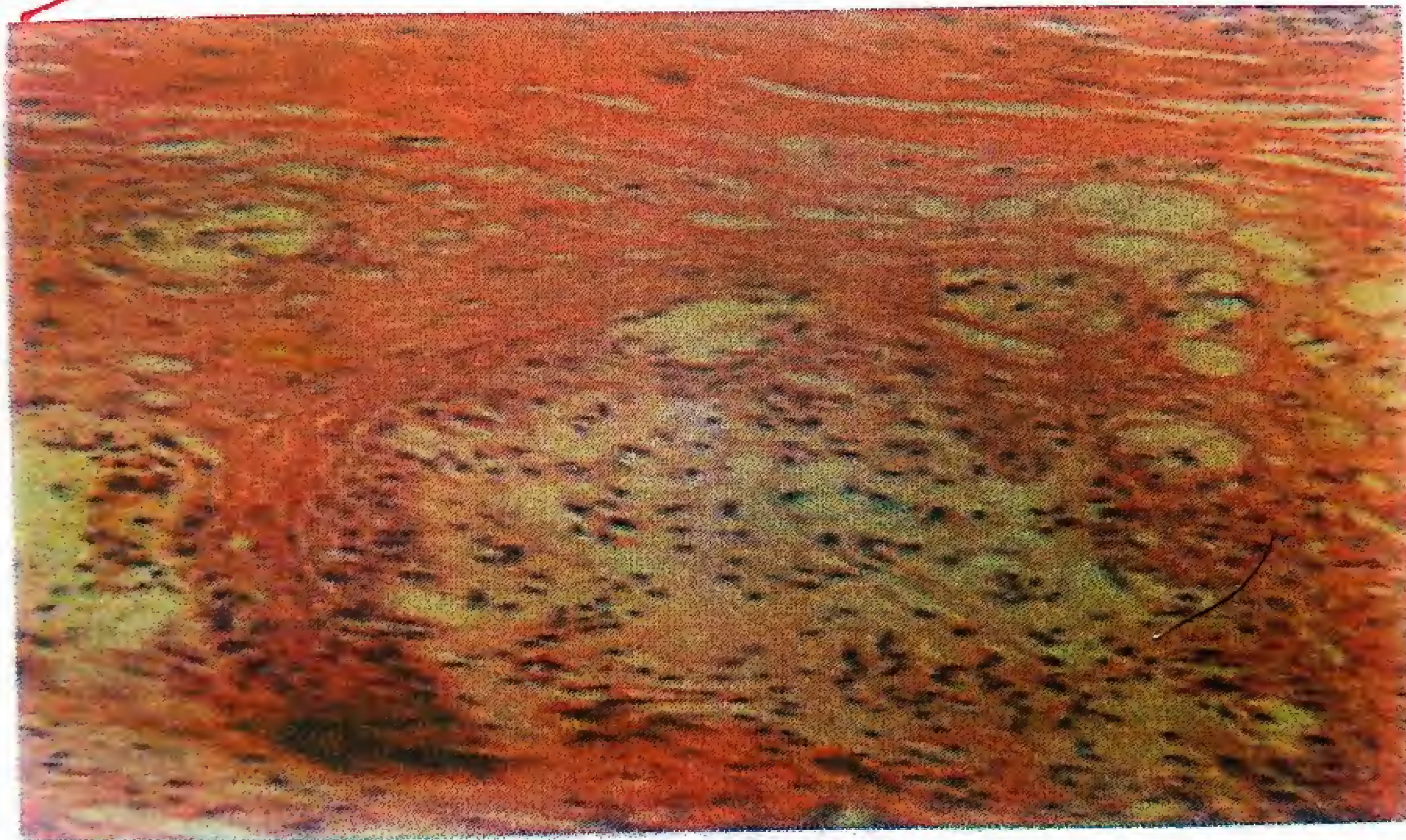




Cattle plague

Lymph node: destruction and disappearance of lymphocytic elements (lymphoblasts and lymphocytes) leaving eosinophilic reticulum

Micrograph



Cattle plague

Lip: degeneration and vacuolation of cells of prickle cell layer may occur at an early stage followed by necrosis

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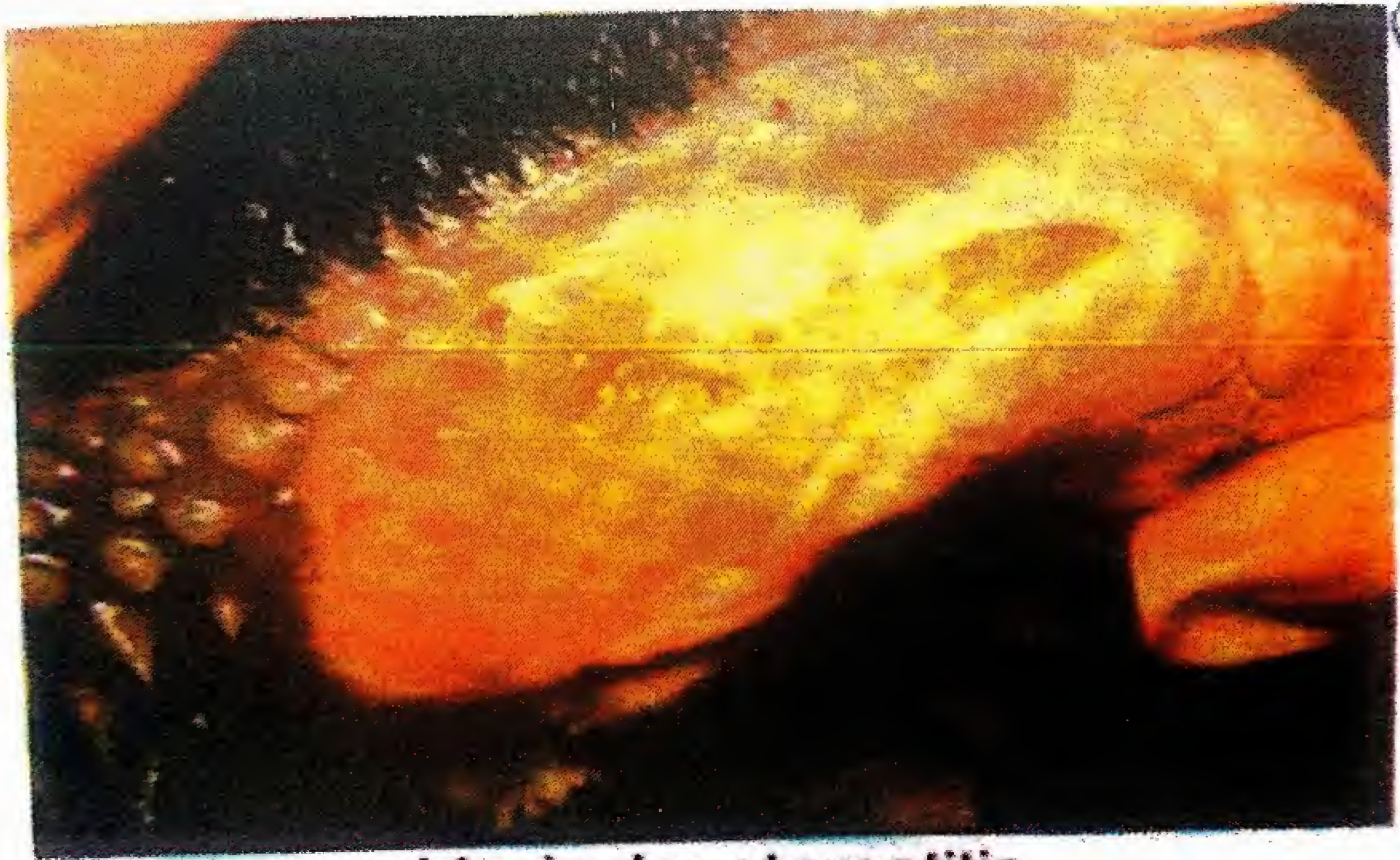
Vesicular Stomatitis

Mouth : vesicles / erosions

Tongue : vesicles / erosions

Feet : vesicles / erosions rarely

Brain : encephalomyelitis rarely



Vesicular stomatitis
Tongue: ruptured vesicles



Vesicular stomatitis
Lesions on the rugae of the hard palate